## SEQUENCE LISTING IAP20 REC'S PCT/PTO 21 DEC 2005

<110> diaDexus, Inc.
 Papkoff, Jackie
 Pilkington, Glenn
 Keller, Gilbert-Andre
 Li, Wenlu
 Corral, Laura
 Simon, Iris
 Kmet, Muriel
 Tang, Jianwen

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<150> US 60/523,271 <151> 2003-11-17

<150> US 60/485,346 <151> 2003-06-27

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<170> PatentIn version 3.1

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35 40 45

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Val Gln Phe Gly Gln Leu Thr Ser Met Pro Ser Phe Trp Ser Leu Gln 85 90 95

Ala Tyr Tyr Thr Arg Tyr Phe Val Ser Asn Ile Tyr Leu Ser Pro Arg

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Tyr Leu Gly Asn Ser Pro Tyr Asp Ile Ala Leu Val Lys Leu Ser Ala 120

Pro Val Thr Tyr Thr Lys His Ile Gln Pro Ile Cys Leu Gln Ala Ser 130

Thr Phe Glu Phe Glu Asn Arg Thr Asp Cys Trp Val Thr Gly Trp Gly 155

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Val Gln Val Ala Ile Ile Asn Asn Ser Met Cys Asn His Leu Phe Leu 180

Lys Tyr Ser Phe Arg Lys Asp Ile Phe Gly Asp Met Val Cys Ala Gly 205

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Trp Gly Val Gly Cys Gly Arg Pro Asn Arg Pro Gly Val Tyr Thr Asn

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Ala His Cys Phe Glu Thr Tyr Ser Asp Leu Ser Asp Pro Ser Gly Trp

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Glu Val Gln Val Ala Ile Ile Asn Asn Ser Met Cys Asn His Leu Phe

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Pro Leu Ala Cys Asn Lys Asn Gly Leu Trp Tyr Gln Ile Gly Val Val 225 230

Ser Trp Gly Val Gly Cys Gly Arg Pro Asn Arg Pro Gly Val Tyr Thr 245

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Glu Leu Gly Arg Trp Pro Trp Gln Gly Ser Leu Arg Leu Trp Asp Ser 50 55 60

His Val Cys Gly Val Ser Leu Leu Ser His Arg Trp Ala Leu Thr Ala 65 70 75 80

Ala His Cys Phe Glu Thr Tyr Ser Asp Leu Ser Asp Pro Ser Gly Trp 85 90 95

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Arg Tyr Leu Gly Asn Ser Pro Tyr Asp Ile Ala Leu Val Lys Leu Ser 130 140

Ala Pro Val Thr Tyr Thr Lys His Ile Gln Pro Ile Cys Leu Gln Ala 145 150 155 . 160

Ser Thr Phe Glu Phe Glu Asn Arg Thr Asp Cys Trp Val Thr Gly Trp 165 170 175

Gly Tyr Ile Lys Glu Asp Glu Ala Leu Pro Ser Pro His Thr Leu Gln 180 185 190

Glu Val Gln Val Ala Ile Ile Asn Asn Ser Met Cys Asn His Leu Phe 195 200 205

Leu Lys Tyr Ser Phe Arg Lys Asp Ile Phe Gly Asp Met Val Cys Ala

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Ser Trp Gly Val Gly Cys Gly Arg Pro Asn Arg Pro Gly Val Tyr Thr 265

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Ala His Cys Phe Glu Thr Tyr Ser Asp Leu Ser Asp Pro Ser Gly Trp 85 90 95

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Arg Tyr Leu Gly Asn Ser Pro Tyr Asp Ile Ala Leu Val Lys Leu Ser 130 135 140

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Gly Tyr Ile Lys Glu Asp Glu Ala Leu Pro Ser Pro His Thr Leu Gln 180 185 190

Glu Val Gln Val Ala Ile Ile Asn Asn Ser Met Cys Asn His Leu Phe 195 200 205

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Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys 50 55 60

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Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu 85 90 95

Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser 100 105 110

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Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr 180 185 190

Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala 195 200 205

Thr Phe Gly Gly Asp His Pro Pro Lys Ser Asp Leu Val Pro Arg 210 215 220

His Asn Gln Thr Ser Leu Tyr Lys Lys Ala Gly Phe Glu Asn Leu Tyr 225 230 235 240

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Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly Ser 260 265 270

Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg Lys 275 280 285

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Asn Pro Met Tyr\_Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu Gln 325 330 335

Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro Phe 340 345 350

Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly Trp 355 360 365

Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu Gln 370 375 380

Ala Ser Val Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp Ala 385 390 395 400

Tyr Gln Gly Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro Glu 405 410 415

Gly Gly Val Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Tyr 420 425 430

Gln Ser Asp Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr Gly 435 440 445

Cys Gly Gly Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala Tyr 450 455 460

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Ala Val Ala Val Arg Leu Ser Lys Asp Arg Ser Thr Leu Gln Val Leu 50 55 60

Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala Cys Phe Asp Asn Phe Thr 65 70 75 80

Glu Ala Leu Ala Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys 85 90 95

Pro Thr Phe Arg Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val

Val Glu Ile Thr Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser 115 120 125

Gly Pro Cys Leu Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys 130 135 140

Gly Lys Ser Leu Lys Thr Pro Arg Val Val Gly Gly Glu Glu Ala Ser 145 150 155 160

Val Asp Ser Trp Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His 165 170 175

Val Cys Gly Gly Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala

180

185

190

His Cys Phe Arg Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala 200

Gly Ser Asp Lys Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile 215

Ile Ile Ile Glu Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala 235

Leu Met Lys Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro

Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu 260 265

Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser 275 280 285

Asp Ile Leu Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr Arg Cys 290

Asn Ala Asp Asp Ala Tyr Gln Gly Glu Val Thr Glu Lys Met Met Cys 305 315

Ala Gly Ile Pro Glu Gly Gly Val Asp Thr Cys Gln Gly Asp Ser Gly

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Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys Ser Phe Pro Glu 85 90 95

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Asp Val Val Glu Ile Thr Glu Asn Ser Gln Glu Leu Arg Met Arg Asn 165 170 175

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195 200 205

Ala Ser Val Asp Ser Trp Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys 210 215 220

Gln His Val Cys Gly Gly Ser Ile Leu Asp Pro His Trp Val Leu Thr 225 230 235 240

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12

Ala Ala His Cys Phe Arg Lys His Thr Asp Val Phe Asn Trp Lys Val 245 250 255

Arg Ala Gly Ser Asp Lys Leu Gly Ser Phe Pro Ser Leu Ala Val Ala 260 265 270.

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Ile Ala Leu Met Lys Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val 290 295 300

Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr 305 310 315 320

Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys 325 330 335

Met Ser Asp Ile Leu Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr 340 345 350

Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly Glu Val Thr Glu Lys Met 355 360 365

Met Cys Ala Gly Ile Pro Glu Gly Gly Val Asp Thr Cys Gln Gly Asp 370 380

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